ABSTRACT

The present invention provides a novel diamine which is especially useful as a material for a resin for a liquid crystal alignment film, a polyimide precursor and a polyimide synthesized by using the diamine, and a treating agent for liquid crystal alignment containing such a polymer, which gives a liquid crystal alignment film having a high pretilt angle of liquid crystal, excellent thermal stability of the pretilt angle and small dependence of the pretilt angle on rubbing pressure.

A diaminobenzene derivative represented by the formula (1):

$$H_2N$$
 H_2C
 X_1
 X_3
 X_3
 X_1
 X_2
 X_3
 X_3
 X_4
 X_4
 X_5
 X_7
 X_8
 X_8
 X_8
 X_9
 $X_$

5

10

wherein X₁ and X₂ are cyclic groups, and X₃ is selected from an alkyl group, an alkoxy group, a fluoroalkyl group, a fluoroalkoxy group, a fluorine atom, a chlorine atom, a bromine atom and a cyano group; a polyimide precursor and a polyimide synthesized by using the diaminobenzene derivative as a part of the material; and a treating agent for liquid crystal alignment containing at least one of the polymers.